BMP Summary Sheet

MS4 Name: City of Mankato

Minimum Control Measure: 5-POST-CONSTRUCTION STORM WATER MANAGEMENT IN

NEW DEVELOPMENT AND REDEVELOPMENT

Unique BMP Identification Number: 5a-1 (Permit Section V.G.5.a)

BMP Title: DEVELOPMENT AND IMPLEMENTATION OF

STRUCTURAL AND/OR NON-STRUCTURAL BMPS

Target Audience: Developers

BMP Description:

Master storm water planning has been and will continue to be a priority for the City. The City implemented its first Master Drainage Plan in February 1972. The plan was updated in April 1994 and the following reports now supplement the master plan to include areas that were outside the scope of the 1994 Plan

- Detailed Storm Water Study- Eastern Portion of Upper Indian Creek Watershed June 1997,
- Country Wood Subdivision Drainage Study- June 2002, and
- Eastern Portion of the Upper Indian Creek Watershed February 2006.

These plans provide ongoing guidance in regards to the types, locations, and sizes required of planned BMPs that meet rate control and water quality goals for the area. New plans of development must meet the recommendations of the Master Plan, otherwise they must submit an alternative plan that includes a revised storm water model that demonstrates appropriate storm water management.

The BMPs recommended in the Master Drainage Plan are predominantly structural. The City will need to put more emphasis on non-structural BMPs in order to meet the goals of the TMDLs on the Minnesota River. As of 2007, the City has two rain gardens and would consider adding more when and if the long term maintenance needs prove to be feasible and the infiltration capacities prove to be effective.

Location(s) in SWPPP of detailed information relating to this BMP: The information included or referenced on this Summary Sheet is intended to meet all SWPPP requirements for this BMP.

Measurable Goals:

The City of Mankato will measure and show effectiveness by:

• On-time completion of tasks in the implementation schedule

The City of Mankato will be able to quantify the work done on this BMP by:

• # of amendments added to the 1994 Drainage Plan.

Timeline/Implementation Schedule:

Baseline- The City has a Drainage Plan that forecasts storm water management needs for the areas that are likely to develop in the future.

2007-2011 Annually review the Drainage Plan and amend if necessary.

Specific Components and Notes:

Resources Needed

• Staff time to review plans to ensure the guidelines of the master plan are being followed.

Responsible Party for this BMP:

Name: Emily Javens, PE, CPESC

Department: Engineering

Phone: (507) 387-8643

E-mail: stormwater@city.mankato.mn.us

Recordkeeping & Reporting:

of drainage plan amendments (DPA)

2008: DPA = _____ 2009: DPA = ____

2010: DPA = 2011: DPA =

BMP Summary Sheet

MS4 Name:

City of Mankato

Minimum Control Measure:

5-POST-CONSTRUCTION STORM WATER MANAGEMENT IN

NEW DEVELOPMENT AND REDEVELOPMENT

Unique BMP Identification Number: 5b-1 (Permit Section V.G.5.b)

BMP Title:

REGULATORY MECHANISM TO ADDRESS POST CONSTRUCTION RUNOFF FROM NEW DEVELOPMENT AND REDEVELOPMENT

Target Audience: Developers, Contractors, Property Owners

BMP Description:

At the start of the City's MS4 SWPPP planning, the City did not have any ordinances that address post construction runoff. The City intends to draft an ordinance to address this issue during 2007 and adopt the ordinance for implementation before the start of the 2008 construction season.

Location(s) in SWPPP of detailed information relating to this BMP: The information included or referenced on this Summary Sheet is intended to meet all SWPPP requirements for this BMP.

Measurable Goals:

The City of Mankato will measure and show effectiveness by:

On-time completion of tasks in the implementation schedule.

The City of Mankato will be able to quantify the work done on this BMP by:

- # of public comments received on ordinance changes.
- # of attendees at the public hearing.

Timeline/Implementation Schedule:

Baseline- The City does not have any ordinances related to this issue.

2007 – Draft a new ordinance or amend the existing ones to include post-construction issues.

2008 – Adopt changes to the City Code prior to the 2008 construction season.

2009-2011 – Annually review ordinance(s) and amend if necessary.

Specific Components and Notes:

Resources Needed:

- Staff time to research and draft ordinance (or amendments).
- Staff time to educate the City Council and target audience members about proposed changes.
- Staff time to conduct public hearing, review and respond to comments, and work toward adoption of the ordinance.

Responsible Party for this BMP:

Name: Emily Javens, PE, CPESC

Department: Engineering

Phone: (507) 387-8643

E-mail:

stormwater@city.mankato.mn.us

Recordkeeping & Reporting:

of public comments received on ordinance changes (PC) # of people in attendance at public hearing (PA)

2007 - 2008:

PC = _____ PA = ____

BMP Summary Sheet

MS4 Name: City of Mankato

Minimum Control Measure: 5-POST-CONSTRUCTION STORM WATER MANAGEMENT IN

NEW DEVELOPMENT AND REDEVELOPMENT

Unique BMP Identification Number: 5c-1 (Permit Section V.G.5.c)

BMP Title: LONG-TERM OPERATION AND MAINTENANCE OF BMPS

Target Audience: City Staff and Private BMP Owners

BMP Description:

<u>For publicly-owned BMPs</u>: Create a database of all BMPs within city limits that includes information about the type of BMP, the location, inspection dates, conditions at time of inspection, and maintenance notes. Establish and implement a preventive maintenance schedule for all BMP structures and track progress using a "work order" procedure.

<u>For privately-owned BMPs</u>: Create a database of all privately-owned BMPs within the city limits. Provide information to the owner of the BMP regarding effective maintenance techniques.

Location(s) in SWPPP of detailed information relating to this BMP: The information included or referenced on this Summary Sheet is intended to meet all SWPPP requirements for this BMP.

Measurable Goals:

The City of Mankato will measure and show effectiveness by:

• On-time completion of tasks listed in the implementation schedule.

The City of Mankato will be able to quantify the work done on this BMP by:

- # of BMPs inventoried in the database
- # of annual inspections completely annually
- # of work orders processed annually

Timeline/Implementation Schedule:

Baseline- The City does not have a complete database that inventories BMPs within the city limits.

- 2007- Create a database of publicly-owned BMPs as described above.
- 2008- Establish a maintenance schedule for the in-place BMPs.
- 2009- Create a database of privately-owned BMPs.
- 2010- Educate private owners of BMPs of proper maintenance techniques.
- 2011- Annually review policies and procedures and amend if necessary.

Specific Components and Notes:

Resources Needed: A database management system capable of producing work orders and tracking maintenance; staff time to build and maintain database; and staff time, training, and equipment to perform proper maintenance of BMPs.

Responsible Party for this BMP:

Name: Emily Javens, PE, CPESC

Department: Engineering

Phone: (507) 387-8643

E-mail: stormwater@city.mankato.mn.us

Recordkeeping & Reporting:

of BMPs inventoried (BMP)
of inspections (I)
of work orders (WO)

2007: BMP =	I =	_ WO =
2008: BMP =	I =	WO =
2009: BMP =	I =	WO =
2010: BMP =	I =	WO =
2011: BMP =	I =	